

**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 10:02 AM

**Daily Diary Report by Bid Item**

Contract No.: 04-0120F4

Diary #: 075 Const Calendar Day: 287 Date: 22-Jun-2010 Tuesday

Inspector Name: Brignano, Bob Title: Transportation Engineer

Inspection Type:

Shift Hours: Break: Over Time:

Federal ID:

Location:

Reviewer: Schmitt, Alex Approved Date: Status: Submit

**04-0120F4  
04-SF-80-13.2/13.9  
Self-Anchored  
Suspension Bridge****Weather**

Temperature 7 AM 12 PM 4PM

Precipitation Condition

Working Day ☒ If no, explain:**Diary:**

Dispute

**General Comments**

ITEM 52 FURNISH STRUCTURAL STEEL (BRIDGE)(TOWER);  
ITEM 55 FURNISH STRUCTURAL STEEL (BRIDGE)(BOX GIRDER);  
HIGH STRENGTH FASTENER ASSEMBLY PRE-INSTALLATION TESTING:

For ABF, engineers Chris Bausone and Sabrina Levine are present for sampling and testing. For CT, Saman Soheilifard is present for the sampling and the first hour of the testing and Bob Brignano is present for the sampling at the start and the testing after the first hour. Today's testing is for rotational capacity, minimum tension verification, and inspection torque. Work happens at Bolt Testing Conex ABF ID 002079 with Skidmore Model HT 4000 ABF ID 000612 in the warehouse. Sampling and testing rocap lots are between 0900 and 1200. Six (6) rocap lots of M24 and two (2) rocap lots of M27 are tested.

When switching from M24 assemblies to M27 assemblies, the "net" setting in the computer that controls the automated Skidmore machine is not properly updated with the new snug tight tension for the larger bolt diameter. If it had the proper snug setting, the tension at 180-degrees would have been higher and still passed, the rocap and inspection torque would have been unchanged (based on a specific tension), and the tension at 360-degrees would have been lower but still passed. The lower snug tight tension is conservative for most portions of the test. Also note that the 5 tests performed are only required for the inspection torque which was unaffected by this computer setting error - the rotational capacity and minimum tension verification testing do not require 5 tests and more tests are performed than required.

See the attached Bolt Test Form for details of the testing.

